

PROTOTYPE

ENG
USE ONLY

Page 1

Work Order ID 98698

98698

March-20-13 1:26:25 PM

Item ID: D2273 Accept *N900040100* Setup Start *NS1*
 Revision ID: U/R Stop *NS2*
 Item Name: Rear Locker Extender, Lay-Up
 Start Date: 3/20/13 Start Qty: 1.00 *1* Cust Item ID:
 Required Date: 3/20/13 Req'd Qty: 1.00 *1* Customer:
 Reference:

Approvals: Process Plan: W Date: Tooling: Date: Run Start *NR1*
 QC: Date: SPC (Y/N): Date: Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D2273	U/R								
110		0.00							
110	PURCHASING								
Purchasing	Memo	0.00							
Purchasing	Issue P/O: 18889								
	Description: D2273 Rear locker extender.								
	Certification of Conformity and process sheet from is required.								
120		0.00							
120	Receive & Inspect for Damage & Mat'l Certs								
Packaging	Packaging								
Packaging	Memo	0.00							
Packaging	Ensure a copy of Certification of Conformity and process sheet from Delastek is attached.								
130		0.00							
130	QC5- Inspect part completeness to step on W/O								
QC	Memo	0.00							
Quality Control	Check hole locations to template. DT 8824 Check process sheet and audit.								

W 130200

P 13/3/6 ①

Q 13/3/20 ①

Work Order ID 98698

98698

Page 2

March-20-13 1:26:25 PM

Item ID:	D2273	Accept	*N900040100*	Setup	Start	*NS1*
Revision ID:	U/R				Stop	*NS2*
Item Name:	Rear Locker Extender, Lay-Up					
Start Date:	3/20/13	Start Qty:	1.00			
			1			
Required Date:	3/20/13	Req'd Qty:	1.00			
			1			
Reference:						
				Cust Item ID:		
				Customer:		

Approvals:	Process Plan:	Date:	Tooling:	Date:	Run	Start	*NR1*
	QC:	Date:	SPC (Y/N):	Date:		Stop	*NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
140		0.00							
140									
Small Fab	Memo	0.00							
Small Fab	INSTALL DECALS AS PER DWG								
150	QC5- Inspect part completeness to step on W/O	0.00							
150									
QC	Memo	0.00							
Quality Control									
160		0.00							
160	Packaging								
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP D350-604-041								
	Location:								
	PPP Rev:								

N/A FOR TEST ONLY CP 13/3/20

CP 13/3/20

N/A ENG USE ONLY CP 13/3/20
ENG 4109

Work Order ID 98698***98698***

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March-20-13 1:26:25 PM

Item ID: D2273 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: U/R Stop ***NS2***
Item Name: Rear Locker Extender, Lay-Up
Start Date: 3/20/13 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 3/20/13 Req'd Qty: 1.00 ***1*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
170	QC21- Final Inspection - Work Order Release	0.00							
170									
QC	Memo	0.00							
Quality Control									

mk
13-6-20
ENG 4109

Picklist Print

March-20-13 1:26:24 PM

Page 1

Work Order ID: 98698

Parent Item: D2273

Parent Item Name: Rear Locker Extender, Lay-Up

Start Date: 3/20/13

Required Date: 3/20/13

Start Qty: 1.00

Required Qty: 1.00

Comments:

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2273P Rear Locker Extender		Purchased	No				Each	0.0000		1			

Per 3/3/6 ①



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO18889

Purchase Order Date 1/21/13

PO Print Date 1/21/13

Page Number 1 of 1

Order From :

VU-CBD001

CARBON BY DESIGN
4128 AVENIDA DE LA PLATA
OCEANSIDE, CALIFORNIA 92056
USA

Contact Name

Vendor Phone 760-643-1300

Vendor Fax 760-643-1333

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr 10127-2607

Terms

Net 30

Currency

USD

FOB

Destination-Collect

Ship To :

DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

FAKED
1/13/13

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1		D2273 350 REAR LOCKER EXTENDER	2/08/13	1.00		\$1,685.0000	\$1,685.00

Yes

Each

PO Total:

\$1,685.00

W 124838

Change Nbr: 1

Change Date: 1/21/13

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required - YES NO



carbon by design

4128 Avenida De La Plata - Oceanside, CA 92056
Phone: 760-643-1300 Fax: 760-643-1333
www.carbonbydesign.com

Packaging List

Date: 2/20/2013
Packaging List No. 14713
Cage Code: 4DG17
CBD Work Order No. 7092
Customer PO No.: PO18889

Billing Address:

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7

Please Deliver To:

Dart Aerospace Ltd
1270 Aberdeen
Hawkesbury, On K6A 1K7
Canada

Customer Phone	Terms	Rep	Ship Date	Ship Via	Buyer
	Net 30	JB	2/20/2013	UPS NEXT DAY	CBD

Item	PO Line #	Description	Qty
D2273	1	D2273, Dart Aerospace, 350 Rear Locker Extender, Fiberglass (Prototype, for testing, and fire specimens) S/N: 14713-1	1

P43/3/5

Pricing Good For 120 Days

Total Items: _____

SHIPPING VALUE
\$1,685.00

CERTIFICATE OF CONFORMANCE (SHORT FORM CUSTOMERS ONLY)

I certify that on 2/25/13 the Carbon by Design LP furnished the supplies or services called for by the Purchase Order Above via Delivery in accordance with all applicable requirements.

I further certify that the supplies or services are of the quality specified and conform in all respects with the contract requirements, including specifications, drawings, preservation, packaging, packing, marking requirements, and physical item identification, and are in the quantity shown in this or on the attached acceptance document.

Quality: _____

Date: 2/25/13

WARNING - This document and its attachments may contain technical data, export of which is restricted by the International Traffic in Arms Regulations (ITAR) or the Export Administration Act (EAA) of 1979, as amended. Disclosure to foreign persons without prior U.S. Government approval is prohibited. Violations of these export laws and regulations are subject to severe civil and criminal penalties.



carbon by design

2/21/2013

CERTIFICATE OF CONFORMANCE

PO: No.: 18889	DESC: 350 REAR LOCKER	Insp: DML	Packing #: 14713
Program: DART	Drawing: D2273	Qty: 1	Serials: 14713-1

Work Requirements:

Statement of Work:	No SOW on file
Internal Process Doc.:	APD: 2206-253
Inspection Document:	AS9102 Rev. A
Manufacturing Process:	Infusion
Security Requirement:	Confidential

Approved Non-Conformances: NO

Pending SDR/ECN: NO

DISPOSITION: To Customer, Ship

SHIP METHOD: UPS

ITAR WARNING –This document and its attachments may contain technical data, export of which is restricted by the International Traffic in Arms Regulations (ITAR) or the Export Administration Act (EAA) of 1979, as amended. Disclosure to foreign persons without prior U.S. Government approval is prohibited. Violations of these export laws and regulations are subject to severe civil and criminal penalties.

Certification Statement:

Carbon by Design LP certifies the items listed above conform to all of the applicable work and quality standard required in the purchase order listed above and any additional work requirements referenced.

All in process quality standards have been met according to customer requirements and Carbon by Design internal quality and finish requirements. All materials Certification are available for inspection and will remain on file at Carbon by Design for a period of no less than ten years.

Finished Materials/Process Specifications:

Per Drawing Redlines and Supplied Markups

Additional Quality Clauses:

Per PO Requirements, 100% Inspection

Active Quality Systems:

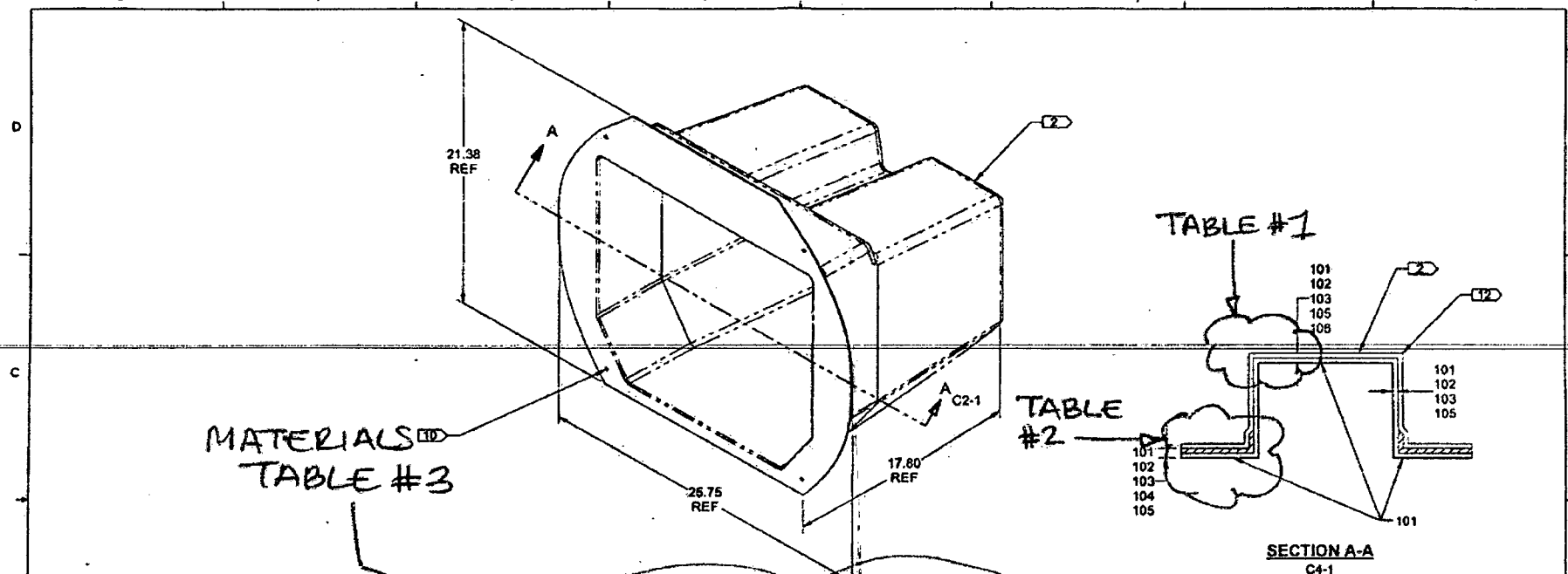
ISO9001:2008

Inspectors Signature:

Date:

3/22/13

D. CONSALVI - 2-26-13



D2273 REAR LOCKER EXTENDER

NOTES (OPTION A):

- 1) MATERIALS:
RESIN: DERAKANE 470-36/41/510A40
FIBRE: 9 oz = 9.7 oz 7781 WEAVE "S" GLASS
18 oz = 18.0 oz ROVING "E" GLASS
- 2) FINISH: FINISH THIS SURFACE WITH DUPONT GREY PRIMER
LE 3404-S/LE 1175-S
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
- 7) WEIGHT: 7.75 lbs NOMINAL, 10.0 lbs MAXIMUM
- 8) LAMINATE PER DART QSI 006
- 9) LAYUP USING DT8010 MOLD. WET LAYUP NO BAG/VACCUUM
- 10) TRIM & DRILL PER DT8020. OPEN HOLES TO Ø0.257 (4 PLACES)
- 11) CONSTRUCTION:
101-WHITE GLOSS GELCOAT # GEL 2330PAWK745 TO MIN
THICKNESS OF 0.020, MAX THICKNESS OF 0.040
102-9 oz ALL OVER
103-18 oz ALL OVER
104-18 oz REINFORCE FRONT FLANGE EXTENDING 2" ON SIDES
105-9 oz ALL OVER
106-PEEL PLY...
- 12) MATTE TO HOLD DOWN CORNERS AS REQUIRED

NOTES (OPTION B):

- 1) MATERIALS:
RESIN: HETRON FR 650 T-20
FIBRE: 1.5 oz RANDOM FIBERGLASS MAT
CATALYST: CADOX M-50A 1
- 2) FINISH: FINISH THIS SURFACE WITH DUPONT GREY PRIMER
LE 3404-S/LE 1175-S
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
- 7) WEIGHT: 8.5 lbs NOMINAL, 10.0 lbs MAXIMUM
- 8) LAMINATE PER THIS DRAWING
- 9) LAYUP USING DT8010 MOLD. WET LAYUP NO BAG/VACCUUM
- 10) TRIM & DRILL PER DT8020. OPEN HOLES TO Ø0.257 (4 PLACES)
- 11) CONSTRUCTION:
101-WHITE GLOSS GELCOAT # G730AA1100 TO MIN
THICKNESS OF 0.020, MAX THICKNESS OF 0.040
102-1.5 oz RANDOM FIBERGLASS MAT
103-N/A
104-N/A
105-1.5 oz RANDOM FIBERGLASS MAT
106-N/A
- 12) N/A
- 13) CATALYZE GELCOAT AND RESIN @ 1.5% CADOX M-50A

SECTION A-A
C4-1

RELEASED
2012-08-22

G	ADD MANUFACTURING OPTION B, ZN B5-1	DC	12.08.06
F	PRIMER LE 3404-S/LE 1175-S WAS 1144-S, ZN A5-1	DC	12.02.27
E	CHANGED SURFACE FINISH FROM 944W005 GELCOAT TO 2330PAWK745 GELCOAT, ZN A7-1, UPDATED DWG TO CURRENT STANDARDS.	DC	12.02.02
D	REMOVE EPOCAST, ADD SURFACE FINISH	CP	02.04.01
C	CLARIFY MATERIAL, LAYUP, AND TOOLING	RF	02.01.30
B	RE-DRAWN	MM	06.05.27
REV.	DESCRIPTION	BY	DATE
DESIGN	JB	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	DC		
CHECKED	DC	DRAWING NO.	REV. G
MFG. APPR.	DC	D2273	SHEET 1 OF 1
APPROVED	DC	TITLE	SCALE
DE APPR.	DC	350 REAR LOCKER EXTENDER	NTS
DATE	12.08.08	COPYRIGHT © 1996 BY DART AEROSPACE LTD THIS DRAWING IS THE PROPERTY OF DART AEROSPACE LTD. IT IS TO BE USED ONLY FOR THE PURPOSES FOR WHICH IT WAS DESIGNED. NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF DART AEROSPACE LTD.	

REDLINES/CBD/D. CONSALVI

2-26-13

PH2 TABLE 1

POSITION	MATERIALS
1	TOOL SURFACE
2	GEL COAT
3	7725 FIBER GLASS
4	3/4 oz CHOPPED STRAND MAT
5	7725 FIBER GLASS
6	7725 FIBER GLASS
7	PRIMER

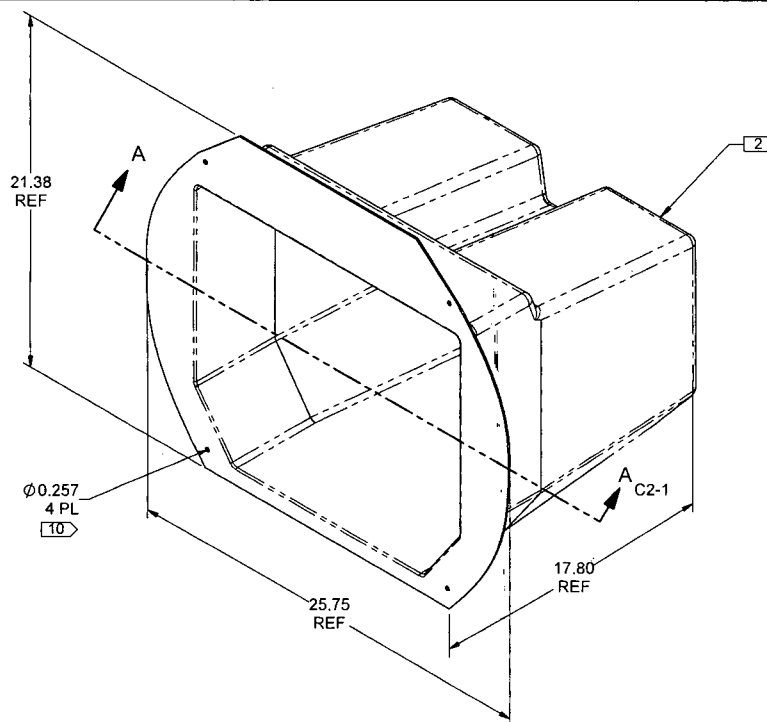
PH2 TABLE 2

POSITION	MATERIALS
1	TOOL SURFACE
2	GEL COAT
3	7725 FIBER GLASS
4	3/4 oz CHOPPED STRAND MAT
5	7725 FIBER GLASS
6	7725 FIBER GLASS
7	7725 FIBER GLASS
8	7725 FIBER GLASS
9	7725 FIBER GLASS
10	PRIMER

PH2

NOTES:

- 1) MATERIAL: SEE TABLE 3
- 2) FINISH: SEE TABLES 1, 2, & 3
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
- 7) WEIGHT: 70.01 lbs?
- 8) LAMINATE PER DART QSI 006. LAMINATION SCHEDULE PER THIS DRAWING
- 9) LAYUP USING DT9871 MOLD. WET LAYUP WITH BAG/VACUUM
- 10) TRIM & DRILL PER DT9871. OPEN HOLES TO Ø0.196
- 11) CONSTRUCTION: SEE TABLES 1 & 2
- 12) MATTE TO HOLD DOWN CORNERS AS REQUIRED



D2273 REAR LOCKER EXTENDER

PH2 TABLE 3

MATERIAL USED	DESCRIPTION
GEL COAT	4314-001 DURA FR WHITE GEL COAT
FIBER GLASS MAT	OWENS CORNING OR EQUIVALENT 3/4 oz CHOPPED STRAND MAT
FIBER GLASS CLOTH	HEXCEL 7725 FIBER GLASS
RESIN SYSTEM	PCCR 7524425UPR
PRIMER	DEFT MIL-PRF-85582E TYPE 1, CLASS 1

SEE TABLE 1

SEE TABLE 2

SECTION A-A

C4-1

PH2	CHANGE MATERIAL & MANUFACTURING PROCESS	DC	13.03.15
G	ADD MANUFACTURING OPTION B, ZN B5-1	DC	12.08.08
F	PRIMER LE 3404-S/LE 1175-S WAS 1144-S, ZN A6-1	DC	12.02.27
E	CHANGED SURFACE FINISH FROM 944W005 GELCOAT TO 2330PAWK745 GELCOAT, ZN A7-1. UPDATED DWG TO CURRENT STANDARDS.	DC	12.02.02
D	REMOVE EPOCAST, ADD SURFACE FINISH	CP	02.04.01
C	CLARIFY MATERIAL, LAYUP, AND TOOLING	RF	02.01.30
B	RE-DRAWN	MM	96.05.27
REV.	DESCRIPTION	BY	DATE
DESIGN	JB		
DRAWN	DC		
CHECKED	DC		
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	13.03.15		

DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWING NO. D2273	REV. PH2 SHEET 1 OF 1
TITLE 350 REAR LOCKER EXTENDER	SCALE NTS
COPYRIGHT © 1996 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL, AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD	

PH2 TABLE 1

POSITION	MATERIALS
1	TOOL SURFACE
2	GEL COAT
3	7725 FIBER GLASS
4	3/4 oz CHOPPED STRAND MAT
5	7725 FIBER GLASS
6	7725 FIBER GLASS
7	PRIMER

PH2 TABLE 2

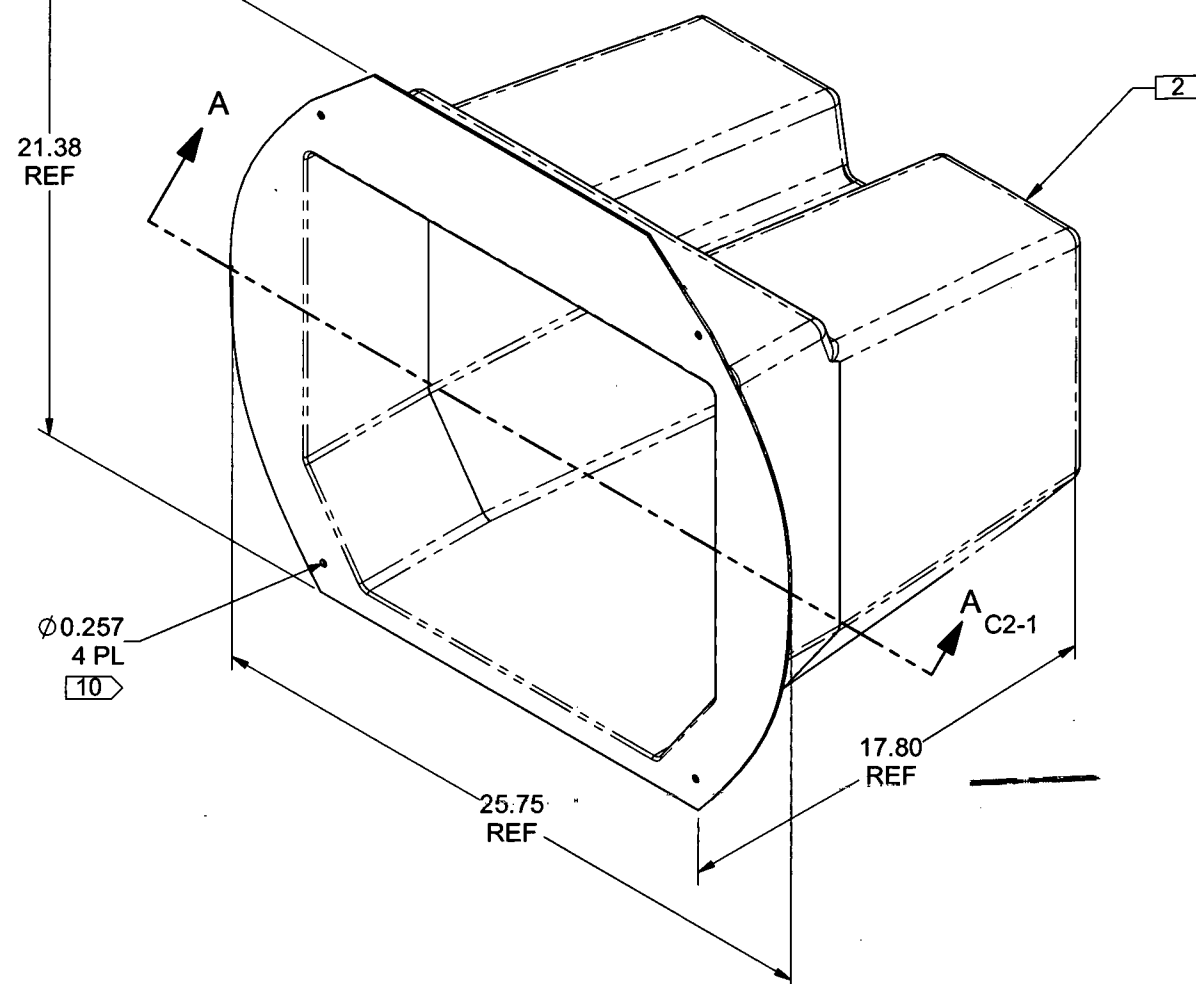
POSITION	MATERIALS
1	TOOL SURFACE
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6	7725 FIBER GLASS
7	7725 FIBER GLASS
8	7725 FIBER GLASS
9	7725 FIBER GLASS
10	PRIMER

PH2 TABLE 3

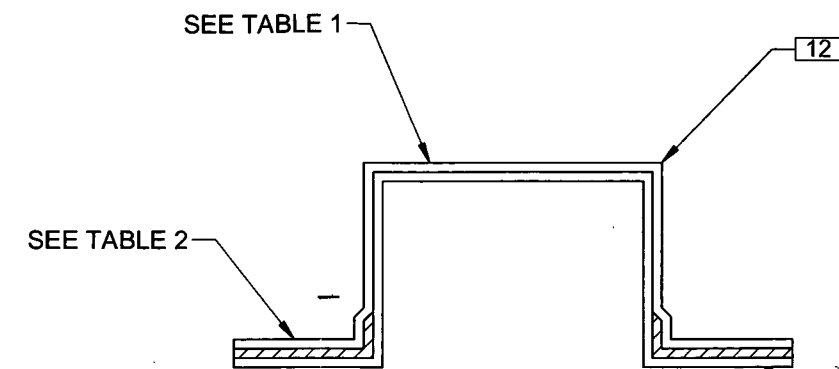
MATERIAL USED	DESCRIPTION
GEL COAT	4314-001 DURA FR WHITE GEL COAT
FIBER GLASS MAT	OWENS CORNING OR EQUIVALENT 3/4 oz CHOPPED STRAND MAT
FIBER GLASS CLOTH	HEXCEL 7725 FIBER GLASS
RESIN SYSTEM	PCCR 7524425UPR
PRIMER	DEFT MIL-PRF-85582E TYPE 1, CLASS 1

NOTES:

- 1) MATERIAL: SEE TABLE 3
- 2) FINISH: SEE TABLES 1, 2, & 3
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
- 7) WEIGHT: ?0.01 lbs?
- 8) LAMINATE PER DART QSI 006. LAMINATION SCHEDULE PER THIS DRAWING
- 9) LAYUP USING DT9871 MOLD. WET LAYUP WITH BAG/VACUUM
- 10) TRIM & DRILL PER DT9871. OPEN HOLES TO Ø0.196
- 11) CONSTRUCTION: SEE TABLES 1 & 2
- 12) MATTE TO HOLD DOWN CORNERS AS REQUIRED



D2273 REAR LOCKER EXTENDER

SECTION A-A
C4-1

PH2	CHANGE MATERIAL & MANUFACTURING PROCESS	DC	13.03.15
G	ADD MANUFACTURING OPTION B, ZN B5-1	DC	12.08.08
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C	CLARIFY MATERIAL, LAYUP, AND TOOLING	RF	02.01.30
B	RE-DRAWN	MM	96.05.27
REV.	DESCRIPTION	BY	DATE
DESIGN	JB	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	DC		
CHECKED	AS	DRAWING NO.	REV. PH2
MFG. APPR.		D2273	SHEET 1 OF 1
APPROVED		TITLE	SCALE
DE APPR.		350 REAR LOCKER EXTENDER	NTS
DATE	13.03.15	COPYRIGHT © 1996 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

Material Requisitions

R/S#: _____

Part Number: 2600 LW 2600-6 Batch #: 123150 Quantity: 4

Received/taken by: [Signature] Date: 13-03-13

USED FOR: (must be completed)

Engineering Project # P _____

OR

Shop Tooling (non-work order) _____